



SEQUENCE LISTING

<110> KISSEI PHARMACEUTICAL CO., LTD.
KIKUCHI, Norihiko
FUJIKURA, Hideki
TAZAWA, Shigeki
YAMATO, Tokuhisa
ISAJI, Masayuki

<120> PYRAZOLE DERIVATIVE, DRUG COMPOSITION CONTAINING THE SAME AND
PRODUCTION INTERMEDIATE THEREOF

<130> Q92014

<140> US 10/561,217

<141> 2005-12-19

<150> PCT/JP2004/008695

<151> 2004-06-15

<150> JP 2003-175663

<151> 2003-06-20

<160> 5

<170> PatentIn version 3.1

<210> 1

<211> 3148

<212> DNA

<213> Homo sapiens

<400> 1

```
aacagatgag caaggagctg gcagcaatgg ggccctggagc ttcaggggac ggggtcagga 60
ctgagacagc tccacacata gcactggact ccagagttgg tctgcacgcc tacgacatca 120
gcgtgggtgg catctacttt gtcttcgtca ttgctgtggg gatctggctg tccatccgtg 180
caagtcgagg gaccattggc ggctatttcc tggccgggag gtccatgagc tgggtggcaa 240
ttggagcatc tctgatgtcc agcaatgtgg gcagtggctt gttcatcggc ctggctggga 300
caggggctgc cggaggcctt gccgtagggt gcttcgagtg gaacgcaacc tggctgctcc 360
tggcccttgg ctgggtcttc gtccctgtgt acatcgagc aggtgtggtc acaatgccgc 420
agtatctgaa gaagcgattt gggggccaga ggatccaggt gtacatgtct gtccctgtctc 480
tcatcctcta catcttcacc aagatctcga ctgacatctt ctctggagcc ctcttcaccc 540
agatggcatt gggctggaac ctgtacctct ccacagggat cctgctggtg gtgactgccg 600
tctacacat tgcaggtggc ctcatggccg tgatctacac agatgctctg cagacggtga 660
tcatggtagg gggagccctg gtccctcatgt ttctgggctt tcaggacgtg ggctggtacc 720
caggcctgga gcagcgggtac aggcaggcca tccctaattg cacagtcccc aacaccacct 780
gtcacctccc acggcccgat gctttccaca tgcttcggga ccctgtgagc ggggacatcc 840
cttggccagg tctcattttc gggctcacag tgctggccac ctgggtgttg tgcacagacc 900
aggtcattgt gcagcgggtct ctctcgccca agagtctgtc tcatgccaa ggaggctccg 960
tgctgggggg ctacctgaag atcctcccca tgttcttcat cgtcatgcct ggcatgatca 1020
gccgggccct gttcccagac gaggtgggct gcgtggaccc tgatgtctgc caaagaatct 1080
gtggggcccg agtgggatgt tccaacattg cctaccctaa gttggtcatg gccctcatgc 1140
ctgttggtct gcgggggctg atgattgccg tgatcatggc cgctctcatg agctcactca 1200
cctccatctt caacagcagc agcaccctgt tcaccattga tgtgtggcag cgcttccgca 1260
gaaagtcaac agagcaggag ctgatggtgg tgggcagagt gtttgtggtg ttccctggtg 1320
```

```

tcatcagcat cctctggatc cccatcatcc aaagctccaa cagtgggcag ctcttcgact 1380
acatccaggc tgtcaccagt tacctggccc caccatcac cgctctcttc ctgctggcca 1440
tcttctgcaa gagggtcaca gagcccggag ctttctgggg cctcgtgttt ggcctgggag 1500
tggggcttct gcgtatgatc ctggagttct cataccagc gccagcctgt ggggaggttg 1560
accggaggcc agcagtgtct aaggacttcc actacctgta ctttgcaatc ctctctgctg 1620
ggctcactgc catcgtcatt gtcattgtca gcctctgtac aactcccata cctgaggaac 1680
agctcacacg cctcacatgg tggactcgga actgccccct ctctgagctg gagaaggagg 1740
cccacgagag cacaccggag atatccgaga ggccagccgg ggagtgcctt gcaggaggtg 1800
gagcggcaga gaactcgagc ctgggcccagg agcagcctga agccccaagc aggtcctggg 1860
gaaagtgtgt ctggagctgg ttctgtgggc tctctggaac accggagcag gccctgagcc 1920
cagcagagaa ggctgcgcta gaacagaagc tgacaagcat tgaggaggag ccactctgga 1980
gacatgtctg caacatcaat gctgtccttt tgctggccat caacatcttc ctctggggct 2040
atthttgcgtg attccacaga cctggcttca gtgtagacag attaaacaaa gcccaagcct 2100
gtcagccaca gaaacaggct ctctctttac tttgtgtct aaactggaga tcacagaagt 2160
caagactgca agctcccctg aagagaatcc aactcaacct gcacacttga caagtggaga 2220
aacagaagct cagagagagc actgggtttg ttcaggacca cccagaaggt gtcacacggg 2280
gtttccccac tctttctgat atattgcctt acagacctac ctcaaacaca ctgtttccac 2340
cctcttcttg aatgtattca gtagccttta ctgaatgtgt gtcttgagag tagaaaaatg 2400
gaggatacaa gaaaaggagc aggaagaaat ttgcaaaaat ccaagagcac ctttgctccc 2460
ccttatectc cttcctcttc ccctttctag tccccctacc tctctatctt tctattctca 2520
ccaataatct ctttgttgca tgaatttacc caggagagtc ctatatttcc attggtggct 2580
ccacagtggg ggctgtcaga cccgaagggg tggggagcca aggggtggact ttaagcatgg 2640
tgacagatgg tattttgggc agaaagctct tagacaatgg actatccaaa gcactattta 2700
aattctgcct cttcctactc tctaaccxaa atatgcacaa actctctatg gccttgagaa 2760
gcagttggag agacatgact tgtaaaaacc tcaaggaatc aagacatgtt actctgtatt 2820
taagggtaag cccacacagc ggcagcacia acagcctggg agccactgtg cctgtgcttc 2880
tctgtccttc tccctttgct tgccatgaat ccgcatacct tggaaatacac tgtgacccca 2940
gttaagtgtc ccttcgccag gaagctgccg caacgtccag acctgggtca agttccact 3000
cctgctccca tagccttgac ctgcttctgt cacagcactg atcacactga gatggaagac 3060
tccagggggc aaggaccaag ggccatatcc caagtgactt tgtaccaga aaataacagc 3120
tgttcaataa atgtgtattg agttaatt 3148

```

<210> 2
 <211> 681
 <212> PRT
 <213> Homo sapiens

```

<400> 2
Met Ser Lys Glu Leu Ala Ala Met Gly Pro Gly Ala Ser Gly Asp Gly
 1             5             10            15

Val Arg Thr Glu Thr Ala Pro His Ile Ala Leu Asp Ser Arg Val Gly
          20            25            30

Leu His Ala Tyr Asp Ile Ser Val Val Val Ile Tyr Phe Val Phe Val
    35             40             45

Ile Ala Val Gly Ile Trp Ser Ser Ile Arg Ala Ser Arg Gly Thr Ile
    50             55             60

Gly Gly Tyr Phe Leu Ala Gly Arg Ser Met Ser Trp Trp Pro Ile Gly
    65             70             75             80

Ala Ser Leu Met Ser Ser Asn Val Gly Ser Gly Leu Phe Ile Gly Leu
          85             90             95

```

Ala Gly Thr Gly Ala Ala Gly Gly Leu Ala Val Gly Gly Phe Glu Trp
 100 105 110
 Asn Ala Thr Trp Leu Leu Leu Ala Leu Gly Trp Val Phe Val Pro Val
 115 120 125
 Tyr Ile Ala Ala Gly Val Val Thr Met Pro Gln Tyr Leu Lys Lys Arg
 130 135 140
 Phe Gly Gly Gln Arg Ile Gln Val Tyr Met Ser Val Leu Ser Leu Ile
 145 150 155 160
 Leu Tyr Ile Phe Thr Lys Ile Ser Thr Asp Ile Phe Ser Gly Ala Leu
 165 170 175
 Phe Ile Gln Met Ala Leu Gly Trp Asn Leu Tyr Leu Ser Thr Gly Ile
 180 185 190
 Leu Leu Val Val Thr Ala Val Tyr Thr Ile Ala Gly Gly Leu Met Ala
 195 200 205
 Val Ile Tyr Thr Asp Ala Leu Gln Thr Val Ile Met Val Gly Gly Ala
 210 215 220
 Leu Val Leu Met Phe Leu Gly Phe Gln Asp Val Gly Trp Tyr Pro Gly
 225 230 235 240
 Leu Glu Gln Arg Tyr Arg Gln Ala Ile Pro Asn Val Thr Val Pro Asn
 245 250 255
 Thr Thr Cys His Leu Pro Arg Pro Asp Ala Phe His Met Leu Arg Asp
 260 265 270
 Pro Val Ser Gly Asp Ile Pro Trp Pro Gly Leu Ile Phe Gly Leu Thr
 275 280 285
 Val Leu Ala Thr Trp Cys Trp Cys Thr Asp Gln Val Ile Val Gln Arg
 290 295 300
 Ser Leu Ser Ala Lys Ser Leu Ser His Ala Lys Gly Gly Ser Val Leu
 305 310 315 320
 Gly Gly Tyr Leu Lys Ile Leu Pro Met Phe Phe Ile Val Met Pro Gly
 325 330 335
 Met Ile Ser Arg Ala Leu Phe Pro Asp Glu Val Gly Cys Val Asp Pro
 340 345 350
 Asp Val Cys Gln Arg Ile Cys Gly Ala Arg Val Gly Cys Ser Asn Ile
 355 360 365
 Ala Tyr Pro Lys Leu Val Met Ala Leu Met Pro Val Gly Leu Arg Gly
 370 375 380
 Leu Met Ile Ala Val Ile Met Ala Ala Leu Met Ser Ser Leu Thr Ser

385		390		395		400
Ile Phe Asn Ser Ser Ser Thr Leu Phe Thr Ile Asp Val Trp Gln Arg						
	405		410		415	
Phe Arg Arg Lys Ser Thr Glu Gln Glu Leu Met Val Val Gly Arg Val						
	420		425		430	
Phe Val Val Phe Leu Val Val Ile Ser Ile Leu Trp Ile Pro Ile Ile						
	435		440		445	
Gln Ser Ser Asn Ser Gly Gln Leu Phe Asp Tyr Ile Gln Ala Val Thr						
	450		455		460	
Ser Tyr Leu Ala Pro Pro Ile Thr Ala Leu Phe Leu Leu Ala Ile Phe						
	465		470		475	
Cys Lys Arg Val Thr Glu Pro Gly Ala Phe Trp Gly Leu Val Phe Gly						
	485		490		495	
Leu Gly Val Gly Leu Leu Arg Met Ile Leu Glu Phe Ser Tyr Pro Ala						
	500		505		510	
Pro Ala Cys Gly Glu Val Asp Arg Arg Pro Ala Val Leu Lys Asp Phe						
	515		520		525	
His Tyr Leu Tyr Phe Ala Ile Leu Leu Cys Gly Leu Thr Ala Ile Val						
	530		535		540	
Ile Val Ile Val Ser Leu Cys Thr Thr Pro Ile Pro Glu Glu Gln Leu						
	545		550		555	
Thr Arg Leu Thr Trp Trp Thr Arg Asn Cys Pro Leu Ser Glu Leu Glu						
	565		570		575	
Lys Glu Ala His Glu Ser Thr Pro Glu Ile Ser Glu Arg Pro Ala Gly						
	580		585		590	
Glu Cys Pro Ala Gly Gly Gly Ala Ala Glu Asn Ser Ser Leu Gly Gln						
	595		600		605	
Glu Gln Pro Glu Ala Pro Ser Arg Ser Trp Gly Lys Leu Leu Trp Ser						
	610		615		620	
Trp Phe Cys Gly Leu Ser Gly Thr Pro Glu Gln Ala Leu Ser Pro Ala						
	625		630		635	
Glu Lys Ala Ala Leu Glu Gln Lys Leu Thr Ser Ile Glu Glu Glu Pro						
	645		650		655	
Leu Trp Arg His Val Cys Asn Ile Asn Ala Val Leu Leu Leu Ala Ile						
	660		665		670	
Asn Ile Phe Leu Trp Gly Tyr Phe Ala						
	675		680			

<210> 3
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: chemically-synthesized
oligonucleotide primer

<400> 3
tgtcacagtc cccaacacca 20

<210> 4
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: chemically-synthesized
oligonucleotide primer

<400> 4
ccgaagcatg tggaaagca 19

<210> 5
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: chemically-synthesized
oligonucleotide probe

<400> 5
tgtcacctcc cacggcccg 19